

input
a first output torque estimating unit for estimating
a first input-torque of said automatic transmission using an
engine torque characteristic;

BT
Could.
a second input torque estimating unit for estimating
a second input-torque of said automatic transmission using a
torque-converter characteristic;

a deviation calculating unit for calculating a
deviation of said first estimated input-torque and said second
estimated input-torque;

a unit for comparing a ratio N_t/N_e between a turbine
revolution speed N_t and an engine revolution speed N_e with a
threshold value; and

a correcting unit for correcting said first estimated
input torque using said deviation when the ratio N_t/N_e is not
smaller than the threshold value.

B2
Cont.
12. (Amended) A method of estimating an input torque for
use in controlling an automatic transmission of a vehicle, the
method comprising the acts of:

estimating a first input-torque of said automatic transmission using an engine torque characteristic;

B2
estimating a second input-torque of said automatic transmission using a torque-converter characteristic;

Concluded
calculating a deviation of said first estimated input-torque and said second estimated input-torque; and

comparing a ratio N_t/N_e between a turbine revolution speed N_t and an engine revolution speed N_e with a threshold value; and

correcting said first estimated input-torque using said deviation when the ratio N_t/N_e is not smaller than the threshold value.

REMARKS

Claims 1-7 have been allowed, while Claims 8-12 have been rejected on formal grounds. For the reasons set forth hereinafter, Applicant respectfully submits that this application is now in condition for allowance.